ANNUAL REPORT
1989

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BRITISH COLUMBIA UTILITIES COMMISSION

1989 Annual Report

90-07069/

British Columbia Cataloguing in Publication Data

British Columbia Utilities Commission.
Annual report. — 1980 —

Cover title.
Continues: British Columbia Energy Commission. Annual report. ISSN 0703-086X
ISSN 0712-9424 = Annual report — British Columbia Utilities Commission

1. British Columbia Utilities Commission — Periodicals. 2. Gas industry — British Columbia — Periodicals. 3. Electric utilities — British Columbia — Periodicals.

HD2768.C35B735 354.7110087'2'05

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BRITISH COLUMBIA UTILITIES COMMISSION

Vancouver, B.C.
May 31, 1989

To the Lieutenant Governor in Council

MAY IT PLEASE YOUR HONOUR:

We respectfully submit this report on the activities of the British Columbia Utilities Commission for the calendar year 1989.

BRITISH COLUMBIA UTILITIES COMMISSION

JOHN G. McINTYRE, Chairman

J.D.V. NEWLANDS, Deputy Chairman

N. MARTIN, Commissioner

W.M. SWANSON, Q.C., Commissioner

SIXTH FLOOR, 900 HOWE STREET, VANCOUVER, B.C. V6Z 2N3, CANADA, TELEPHONE: (604) 660-4700, TOLL FREE 1-800-663-1385, FACSIMILE: (604) 660-1102

TABLE OF CONTENTS

		Page
INTRODUCTION		(i)
APPENDICES		
I	Regulated Public Utilities Located in British Columbia	1
II	Applications Heard and Decisions Issued in 1989	3
III	Commission Orders Issued in 1989	7
IV	Certificates of Public Convenience and Necessity Issued in 1989	14
V	Energy Supply Contract Orders Issued in 1989	15
VI	Petroleum Orders Issued in 1989	16
VII	Complaints from Utility Customers in 1989	17
VIII	Costs Recovered from Regulated Utilities	18
IX	Electric Utilities in British Columbia Domestic Electricity Sales — 1989	19
X	Gas Utilities in British Columbia Domestic Gas Sales — 1989	20
XI	Summary of Hearing Days — 1989	21
XII	Staffing Level (Graph)	23
XIII	Commission Orders Issued, 1978 through 1989 (Graph)	24
XIV	Organization Chart as at December 31, 1989	25
XV	Main Electric Transmission and Power Generating Facilities (Map)	27
XVI	Natural Gas and Gas Liquids Utilities Located in British Columbia (Map)	28

Introduction

The British Columbia Utilities Commission ("the Commission") is an independent regulatory agency of the Provincial Government operating under, and administering the ***Utilities Commission Act*** ("the Act"). The Commission's primary responsibility is the regulation of the energy utilities under its jurisdiction to ensure that the rates charged for energy are fair and reasonable, and that utility operations are safe and provide adequate and secure service to their customers. It approves construction of new facilities planned by utilities and their issuance of securities. The Commission's function is quasi-judicial and its decisions and orders may be appealed to the Court of Appeal on questions of law or excess of jurisdiction.

The Commission also functions in an advisory role in the administration of the Energy Project Review Process. It reviews and evaluates energy related projects referred to it by Cabinet. It also reviews energy project certificates and regulated project applications. The Commission's review and evaluation process involves public hearings, followed by a report and recommendations to the Lieutenant Governor in Council.

As directed by the Commission, the Commission's staff assesses applications, submissions and complaints made to the Commission.

Petroleum

During the first half of 1989, the Commission heard an Energy Project Certificate Application by Pacific Coast Energy Corporation ("PCEC") to construct a natural gas transmission pipeline from Greater Vancouver to Vancouver Island. The proposed routing of the pipeline was from Coquitlam through the Coquitlam Watershed and up Indian Arm to Squamish. Beyond Squamish the pipeline would service the Sunshine Coast, cross to Texada Island and then provide service from Texada Island both to Powell River on the Mainland and Vancouver Island. On Vancouver Island the transmission pipeline would extend from Campbell River in the north, to Victoria in the south.

The Commission rendered its Report and Recommendations to the Government on April 6, 1989 supporting the award of an Energy Project Certificate to PCEC. During the course of the PCEC hearings, the government awarded the rights to distribute natural gas on Vancouver Island and the Sunshine Coast to ICG Utilities (British Columbia) Ltd.

The financial support for the Vancouver Island Project includes grants and loans from the Federal and Provincial Governments and a Rate Stabilization Facility provided by the Provincial Government which subsidizes utility costs to ensure that natural gas burner-tip prices are limited to 85% of light fuel oil and electricity. At year end, the construction of the PCEC pipeline had commenced with an expected in-service date in the fall of 1991.

Over the course of the summer and fall of 1989, the Commission reviewed and approved gas supply contracts pursuant to Section 85.3 of the Act and the Commission's review process was further refined.

In addition to the normal filings by gas utilities during the year, the Commission spent a considerable time reviewing proposals by BC Gas and recommending action to the Lieutenant Governor in Council who is currently responsible for the regulation of BC Gas.

The Commission also regulates several intra-provincial oil pipelines. The Commission's method of regulation with respect to these oil pipelines is by complaint, so that if the pipeline owner and the various shippers can agree on appropriate tariffs, the Commission will accept these tariffs. The Trans Mountain Enterprises of British Columbia Limited's ("TME") jet fuel line from Burrard Inlet to Vancouver Airport became a matter of complaint during 1989. TME proposed to substantially upgrade its existing pipeline and Transport Canada sought to have TME further improve the security of its tank farm on the Vancouver Airport site. This matter was ultimately negotiated by the parties involved, and the complaint withdrawn.

Electricity

During 1989, significant steps were taken to encourage competition within the electricity industry in British Columbia. Bill 46, the ***Utilities Commission Amendment Act, 1988,*** spawned the introduction of competition between Independent Power Producers ("IPP") and co-generators to develop and sell electricity generation capability to B.C. Hydro and Power Authority. B.C. Hydro sought private sector involvement in the supply of new generation to both the Zone I (integrated) service area and the Zone II (diesel) service areas. By year end some 13 proposals to generate small hydro power of less than 5 megawatts capacity had been made. In the greater than 5 megawatt category, five proposals were short-listed by B.C. Hydro for the generation of private power for domestic use. B.C. Hydro also entered into an Agreement in Principle to provide a five-year interest free loan of $100 million to Howe Sound Pulp and Paper to facilitate the company's installation of substantial co-generation capacity at its modernized plant site at Port Mellon.

The government issued a Special Direction to the Commission in October, 1989 pursuant to Section 3 of the Act. That Special Direction, designated as No. 3, replaces the previous Special Direction No. 1 to the Commission which had been in place since 1984. The new Special Direction requires the Commission to ensure that B.C. Hydro meets minimum financial requirements for the future, and also gives the Commission guidance with respect to long-term rate setting to ensure the rates not only meet the fair, just and reasonable requirements of the Act, but are also smooth, stable and predictable for the future, to reflect the cost of new generation facilities that will be required. Rate increases are also to be structured to promote conservation and the efficient use of energy.

In response to the Special Direction, B.C. Hydro made Application for rate increases of 3% in each of the fiscal years 1989-90, 1990-91, 1991-92. The Commission approved a 3% increase over existing rates, effective November 15, 1989 on an interim basis, with the interim increase subject to refund with interest. The rate application was heard in public hearing from February 12, 1990 to March 5, 1990.

B.C. Hydro and West Kootenay Power Ltd. ("WKP") instituted conservation and demand-side management programs under the respective names of "Power Smart" and "Power $ense". These programs are intended to promote conservation and forestall the addition of future generation facilities for each utility.

Earlier in 1989 the Commission held a Public Inquiry into public complaints concerning B.C. Hydro's addition of a new 230 kV transmission line in the utility right-of-way corridor between its Dunsmuir and Gold River substations. The complaints were with respect to the line routing in the area of Courtenay and the possible electro-magnetic

field ("EMF") health effects to residents adjacent to the line. The Commission considered that this matter could best be resolved by way of an Inquiry and appointed the Chairman of the Commission as Inquiry Officer. The findings of the Inquiry Officer, as adopted by the Commission, were that there was insufficient evidence to support a presumption of actual health risks from the proposed transmission line. Although there has been concern raised in some scientific literature with respect to EMF impact on humans, the Inquiry report contended that more and better scientific facts were required to conclude that a health risk exists. Since the Inquiry, the Commission has issued Orders requiring utilities constructing a transmission line of 138 kV or greater to obtain a Certificate of Public Convenience and Necessity from the Commission.

In January 1989, the Commission concluded its hearing of an Energy Project Certificate Application by WKP to construct a gas turbine generation plant of 140 megawatt capacity in the Village of Oliver. The Commission issued its Report and Recommendations to the government on February 24, 1989, in which the Commission concluded that the Oliver Industrial Park was not a suitable location for the proposed gas turbine facility. The Commission further recommended that WKP conclude long-term gas supply contracts and, subject to certain environment-related conditions, the Application could be approved for construction at a site more suitable than the Oliver site.

In March 1989, the Commission held a public hearing into a rate application by WKP to increase its rates during the test-year 1989. Pursuant to Commission Order No. G-34-89, dated April 26, 1989, the Commission confirmed the rate increase.

Administration

During 1989 the Commission completed its procedures and staffing review. A number of organizational changes took place which improved the efficiency and effectiveness of the Commission in dealing with its work load. The Commission currently employs professional staff which includes engineering, finance, economics and accounting specialists.

The four full-time Commissioners and three temporary Commissioners together with members of the staff oversaw regulatory matters relating to 24 electric, and gas utilities and petroleum pipelines serving more than two million customers.

Pursuant to Section 140 of the Act, the Commission recovered its expenses by appropriate levies on these regulated utilities (see Appendix VIII).

APPENDIX 1
REGULATED PUBLIC UTILITIES

UTILITY	HEAD OFFICE	SERVICE AREA
Crown-Owned Electric Utility		
British Columbia Hydro and Power Authority	970 Burrard St. Vancouver, B.C. V6Z 1Y3	Lower Mainland, Vancouver Island, Central and Northern B.C. and East Kootenay Region
Investor-Owned Electric Utilities		
Hemlock Valley Electrical Services Limited	Box 7, Site 2 R.R. #1 Agassiz, B.C. V0M 1A0	Hemlock Valley
Princeton Light and Power Company, Limited	Box 700 Princeton, B.C. V0X 1W0	Princeton area
West Kootenay Power Ltd.	Waneta Plaza 8100 Rock Island Highway Trail, B.C. V1R 4N7	West Kootenay, and Okanagan Regions of B.C.
Yoho Power Ltd.	Suite 800 1176 W. Georgia St. Vancouver, B.C. V6E 4A2	Field
Yukon Electric Co. Ltd.	Box 4190 Whitehorse, Yukon Territory Y1A 3T4	Lower Post
Municipally-Owned Electric Utilities*		
City of Grand Forks	Box 220 Grand Forks, B.C. V0H 1H0	Grand Forks
City of Kelowna	1435 Water St. Kelowna, B.C. V1Y 1J4	Kelowna
City of Nelson	502 Vernon St. Nelson, B.C. V1L 4E8	Nelson area

City of New Westminster	511 Royal Avenue New Westminster, B.C. V3L 1H9	New Westminster
City of Penticton	616 Okanagan Avenue East Penticton, B.C. V2A 3K6	Penticton
District of Summerland	Box 159 Summerland, B.C. V0H 1Z0	Summerland

Investor-Owned Natural Gas or Propane Utilities

BC Gas Inc.	P.O. Box 12503 1066 West Hastings St. Vancouver, B.C. V6E 3G3	Lower Mainland, Fort Nelson area, Central, Northern and Southern Interior Regions and Kootenays
ICG Utilities (British Columbia) Ltd.	#110-800 Tolmie Avenue Victoria, B.C. V8X 3W4	Victoria, Nanaimo, Port Alice, Whistler and Fort St. John area
Northland Utilities (B.C.) Limited	10035-105th St. Edmonton, Alberta T5J 2S3	Dawson Creek, Rolla, Pouce Coupe, and Tumbler Ridge
Pacific Northern Gas Ltd.	Suite 1400 1185 West Georgia St. Vancouver, B.C. V6E 4E6	Summit Lake to Prince Rupert and Kitimat
Squamish Gas Co. Ltd. (BC Gas Subsidiary)	P.O. Box 12503 1066 West Hastings St. Vancouver, B.C. V6E 3G3	Squamish, Granisle

Investor-Owned Steam Heat Utility

Central Heat Distribution Limited	720 Beatty St. Vancouver, B.C. V6B 2M1	Downtown Vancouver

* Only service outside Municipal Boundaries is subject to regulation by the British Columbia Utilities Commission.

APPENDIX II
APPLICATIONS HEARD AND DECISIONS ISSUED IN 1989

TYPE OF APPLICATION

Complaints regarding proposed 230 kV Transmission Line from Dunsmuir to Gold River, B.C. (Possible health effects from the Electromagnetic Field ["EMF"] produced by the line).

NAME OF REGULATED ENTITY

B.C. Hydro and Power Authority

DECISION NAME/ISSUE/FACTUAL AND QUANTITATIVE DETERMINATIONS

Pursuant to Section 93(2) of the ***Utilities Commission Act*** and Commission Order No. G-35-89, a Public Inquiry was conducted into the complaints by customers of British Columbia Hydro and Power Authority in the Courtenay area regarding possible Electromagnetic Field ("EMF") health effects from the proposed 230 kV transmission line from Dunsmuir to Gold River. The Public Inquiry was held in Courtenay from July 11 to 14, 1989.

The main findings of the Inquiry were:

- While there is cause for concern within the scientific community about the possible biological effects on humans of EMF, there is insufficient scientific evidence to support a presumption of actual health risks;
- More and better scientific research is necessary in both the laboratory and epidemiological areas;
- Establishment of any fixed standards for EMF exposure at the edge of a right-of-way would be undesirable given the current state of scientific evidence.

DECISION, DATE, AND ORDER NUMBER

Order No. G-44-89; Report and Recommendations — July 26, 1989.

* * * * * * * * *

TYPE OF APPLICATION

Rate increase.

NAME OF REGULATED ENTITY

West Kootenay Power Ltd.

DECISION NAME/ISSUE/FACTUAL AND QUANTITATIVE DETERMINATIONS

West Kootenay Power Ltd. ("WKP"), incorporated in 1897, is a wholly-owned subsidiary of UtiliCorp British Columbia Ltd. which in turn is a wholly-owned subsidiary of UtiliCorp Inc. of Kansas City, Missouri.

WKP provides electric utility service in the Southern Okanagan as well as the West Kootenay/Boundary region of British Columbia. Electricity is primarily supplied through its own generating plants on the Kootenay River, purchases from Cominco Ltd. and purchases from the British Columbia Hydro and Power Authority ("B.C. Hydro"). Minor purchases have been made from the Bonneville Power Administration ("BPA").

The WKP system supplies approximately 60,000 direct service customers and approximately 37,000 other customers indirectly through municipal utilities in Nelson, Grand Forks, Kelowna, Penticton and the district of Summerland, and a privately-owned utility supplying Princeton and environs. Of the wholesale customers only the City of Nelson, which supplies itself and the North Shore area adjacent to the City has its own generation, with additional electricity purchased from WKP as and when required.

The Rate Application was heard in Rossland, B.C. over seven days. The Decision embodied the following:

1. The Rate Base and Revenue Requirement for the Test Year ended December 31, 1989 are as set out in Schedules contained in the Commission's April 25, 1989 Decision;
2. The Commission confirmed the interim rates in effect on January 1, 1989;
3. The Commission will accept, subject to timely filing, amended Electric Tariff Rate Schedules which conform to the terms of the Commission's Decision;
4. West Kootenay Power Ltd. will comply with the several directions incorporated in the Commission Decision.

   These directions covered the following areas: Capital Expansion Projects, Resource Planning Considerations, Forecasting, Demand Side Management as Rate Base, Demand Side Programs, and Rate Design.

DECISION, DATE, AND ORDER NUMBER

Decision and Order No. G-24-89, dated April 25, 1989.

* * * * * * * *

TYPE OF APPLICATION

Energy Project Certificate to Construct and Operate a Natural Gas Pipeline transmission facilities to and on Vancouver Island.

NAME OF REGULATED ENTITY

Pacific Coast Energy Corporation

DECISION NAME/ISSUE/FACTUAL AND QUANTITATIVE DETERMINATIONS

The public hearing was the result of the Application of November 1988 referred to the Commission December 20, 1988 by PCEC, equal partners Westcoast Energy Inc. and Alberta Energy Corporation, seeking an Energy Project Certificate and an Energy Operating Certificate from the Government with respect to its proposed natural gas transmission pipeline to be constructed from Coquitlam, B.C. to Vancouver Island. The main transmission line on the Island would continue via Comox southward to Nanaimo and Duncan, terminating at Victoria. Laterals to the industrial complexes on the Island would be extended including lines which would service loads at the communities of Port Alberni and Campbell River.

The PCEC Application was the result of an understanding between the Federal and Provincial Governments on funding for the project. The Statement of Principles between the Governments was signed on September 22, 1988.

The Commission conditionally recommended that an Energy Project Certificate be

granted to Pacific Coast Energy Corporation. The recommended conditions in summary form ran to 5 pages and covered aspects of design, routing, financing and environmental impact mitigation.

DECISION, DATE, AND ORDER NUMBER

Report April 6, 1989 to Lieutenant Governor in Council.

* * * * * * * * *

TYPE OF APPLICATION

Energy Project Certificate to Construct and Operate a Gas Turbine Generating Plant in the South Okanagan.

NAME OF REGULATED ENTITY

West Kootenay Power Ltd.

DECISION NAME/ISSUE/FACTUAL AND QUANTITATIVE DETERMINATIONS

A hearing to consider the company's Application for an Energy Project Certificate for a Gas Turbine Generation Plant (rated capacity 140 MW) on a 5.6 hectare parcel of land in the Industrial park in the Village of Oliver, in B.C.'s South Okanagan region commenced in that community on November 22, 1988 and continued for 19 days.

The Commission concluded that the most appropriate independent resource would be the gas turbine plant proposed by the applicant provided that a long-term gas supply contract is negotiated with prices generally at or below levels escalated as described in the 1986 MEMPR "B.C. Energy Supply and Requirements Forecast" (as amended in 1987 for the years 1987 to 1992). Without this, the financial risks of the project, and the reduction in environmental quality which would result from it, outweigh the prospective economic benefits. The Commission was aware of the number of intervenors and intervenor groups who testified to their preference for a modest WKP rate increase rather than the perceived reduction in air quality and increase in noise pollution resulting from installation of the gas turbines.

In its Report, submitted to the Lieutenant Governor in Council ("LGIC") dated February 24, 1989, the Commission concluded that the Oliver industrial park was ***not*** a suitable or acceptable location for the proposed gas turbine facility. The LGIC concurred with the decision. The Commission stated that if the project is to proceed, an alternative site is required.

It recommended that subject to long-term gas fuel contract and subject to certain environment-related conditions, the Application be approved for construction at a site more suitable than that currently proposed in the Village of Oliver.

DECISION, DATE, AND ORDER NUMBER

Report and Recommendations to Lieutenant Governor in Council — February 24, 1989.

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TYPE OF APPLICATION

Application for general rate increase.

NAME OF REGULATED ENTITY

Northland Utilities (B.C.) Limited

DECISION NAME/ISSUE/FACTUAL AND QUANTITATIVE DETERMINATIONS

The Public Hearing was the result of an application by Northland Utilities (B.C.) Limited, a subsidiary of Northwestern Utilities Limited of Edmonton, serving 4770 residential and commercial customers and a rate base of approximately $3 million in its Dawson Creek Division. Northwestern is a wholly-owned subsidiary of Canadian Utilities Ltd., also of Edmonton. A hearing was held at Dawson Creek, B.C. on April 11, 1989. The Commission confirmed the interim rates of 6.51% effective January 1, 1989 and approved a further 0.92% over its current existing rates effective January 1, 1990. The company is given the opportunity to earn a normalized rate of return on common equity of 14.6% in 1989 and 14.5% in 1990.

The Company is directed to achieve a mid-year common equity component of approximately 40% in fiscal 1990.

DECISION, DATE, AND ORDER NUMBER

Decision and Order No. G-26-89 — May 10, 1989.

APPENDIX III

COMMISSION ORDERS ISSUED IN 1989

Order No.	Utility	Date
G-1-89	**NORTHLAND UTILITIES (B.C.) LIMITED ("NORTHLAND")**	**January 6**
	Interim rate increase of 6.51% — Dawson Creek, approved effective January 20/89. Application set down for public hearing by G-7-89.	
G-2-89	**PACIFIC COAST ENERGY CORP. ("PCEC")**	**January 9**
	Extension of time given to PCEC to file Executive Summary and Direct Evidence.	
G-3-89	**PCEC**	**January 11**
	Pre-Hearing Conference set for January 18, 1989.	
G-4-89	**DIST. OF MT. WADDINGTON**	**January 16**
	Public Hearing into B.C. Hydro's proposed extension to Winter Harbour adjourned.	
G-5-89	**PCEC**	**January 18**
	PCEC phasing of public hearing, regional hearings, etc.	
G-6-89	**PRINCETON LIGHT AND POWER COMPANY LIMITED ("PLP")**	**January 19**
	Approved Pass-through of WKP interim increase equivalent to 0.169 cents/kWh effective January 1/89.	
G-7-89	**NORTHLAND**	**January 19**
	Notice of Public hearing set for April 11, 1989 — Dawson Creek.	
G-8-89	**PACIFIC NORTHERN GAS LTD. ("PNG")**	**January 26**
	Gas Tariff Amendments to NGV and Appliance Conversion Loan Program approved.	
G-9-89	**B.C. HYDRO AND POWER AUTHORITY ("B.C. HYDRO")**	**January 26**
	Complaint by Bella Bella Fisheries regarding rates charged by B.C. Hydro above Zone II tariff — refund ordered	
G-10-89	**B.C. HYDRO**	**January 26**
	Tariff Amendments to Overhead Street Lighting — Rate Schedules: RS 1701 — new fixture, RS 1760 — cancelled.	
G-11-89	**INLAND NATURAL GAS ("INLAND")**	**January 26**
	Approved discontinuation of reporting requirements for merchandise and appliance program as ordered in G-52-87.	

Order No.	Utility	Date
G-12-89	**SUNSHINE VALLEY**	**February 9**

Grid System exempted from Part 3 of ***Utilities Commission Act*** other than Sections 28, 30, 44, 47 and 48.

G-13-89	**SQUAMISH GAS**	**February 9**

Approved refund to customers for gas consumed prior to December 31/88 and decrease in gas tariff rates effective January 1/89. Approved amendments to service connection charges. Allowed establishment of Deferral Account to which propane costs above/below 1989 forecast of 9.4¢ per litre will be charged.

G-14-89	**ICG UTILITIES (BRITISH COLUMBIA) LTD. ("ICG")**	**February 24**

Gas Tariff — Whistler District, rate increase confirmed as permanent effective December 1/1988.

G-15-89	**PCEC**	**February 24**

VIGPL public hearing set March 1, 1989 to hear final argument on Phase I — Facilities and Capital Costs and Phase II — Environmental and Socio-Economic.

G-16-89	**INLAND AND B.C. GAS**	**February 24**

Inland and B.C. Gas Employee Share Purchase Plan accepted for filing, pursuant to Section 57(4) of the ***Utilities Commission Act.***

G-17-89	**PCEC**	**March 2**

PCEC ordered to file certain information by March 6, 1989. Phase III Markets, Financial and Gas Supply to commence March 9/1989.

G-18-89	**PCEC**	**March 6**

Participants ordered to file direct evidence for Phase III by March 13/1989.

G-19-89	**ICG**	**March 31**

Approved, effective May 1, 1989, a permanent increase of $0.169 per GJ in rates charged to residential and commercial customers in Ft. St. John area in order to recover the decrease in revenue from competitive industrial rates.

G-20-89	**CANADIAN PACIFIC ("CP")**	**April 6**

Approved CP's Application covering the sale of power to Cona resort at Albert Canyon, B.C. exempted from the ***Utilities Commission Act*** other than Section 114 and Part 2.

G-21-89	**B.C. HYDRO**	**April 13**

Amended Commission Order No. G-9-89 by correcting rate schedule references.

G-22-89 **QUEEN CHARLOTTE POWER CORPORATION ("QCPC")** **May 1**

QCPC exempted from provisions of Part 3 of the Act except Section 27.

G-23-89 **WEST KOOTENAY POWER LTD. ("WKP")** **April 25**

Accepted for filing, effective for the 1989 irrigation season, amendments to the Electric Tariff, Rate Schedules 61 and 62.

G-24-89 **WKP** **April 26**

Commission Decision confirmed interim rate increase of 6.7% in effect January 1/89; accepted for filing, amended Electric Tariff Rate Schedules.

G-25-89 **ICG** **May 4**

Accepted for filing effective May 1, 1989 amended Tariff Rate Schedules incorporating a decrease of 1.74¢/Ccf for Nanaimo and 6.03¢/Ccf for Whistler.

G-26-89 **NORTHLAND** **May 10**

Commission Order and Reasons for Decision confirmed interim rates effective January 20/89 plus an additional 1.7% over existing rates effective January 1, 1990.

G-27-89 **PNG** **May 11**

Advised PNG that a CPCN will be issued for gas service to the Village of Port Edward subject to receipt of final cost calculations.

G-28-89 **CITY OF NELSON** **May 12**

City By-Law accepted for filing, to allow standard distance for a drop service consistent with other provincial electrical utilities.

G-29-89 **PNG** **May 25**

Approved PNG's Application to refund of Westcoast Energy's 1988 Interruptible Revenue Credits in amount of $584,472.

G-30-89 **CITY OF NELSON** **May 25**

Confirmed electrical rates effective January 1, 1989, consistent with Commission Order G-24-89 and Decision on WKP.

G-31-89 **RECOVERY OF COMMISSION COSTS** **June 5**

Ordered recovery of Commission expenses amounting to $2,440,000 for the fiscal year commencing April 1, 1989 be recovered.

G-32-89 **WKP** **June 5**

Accepted for filing Service Agreements as Tariff Supplements to Rate Schedule 40 — Wholesale Service dated July 1, 1987 between WKP and six municipal electrical utilities. Assignment agreement dated October 10, 1986 of Westar Timber Ltd., amendment dated July 29, 1987 to reduce contract demand limit of Celgar Pulp Co., effective November 1, 1987.

Order No.	Utility	Date
G-33-89	**SQUAMISH GAS**	**June 9**

Approved Tariff Supplement No. 1, for gas service to Granisle Village Inn for 4-year term commencing October 1, 1988.

G-34-89	**PLP**	**June 9**

Confirmed electrical rates effective January 1, 1989, consistent with Commission Order G-24-89 and Decision on WKP.

G-35-89	**B.C. HYDRO**	**June 12**

Inquiry Officer appointed to review safety aspects of Electro-magnetic fields of a 230 kV transmission line in the Courtenay/Comox area.

G-36-89	**B.C. HYDRO**	**June 29**

Approved extension of subsidy payments made by B.C. Hydro to Yoho Power Ltd. for the period July 1,1989 to October 31, 1989.

G-37-89	**WKP**	**June 29**

Amendments to the definition of Residential Service accepted for filing.

G-38-89	**WKP**	**June 29**

Service line contract for work in Princeton-Tulameen area, between WKP and PLP accepted for filing.

G-39-89	**B.C. HYDRO**	**June 29**

Prepayment on Account Plan, effective December 29, 1989, accepted for filing.

G-40-89	**ICG**	**July 21**

Victoria Gas Tariffs, Terms and Conditions and rates, accepted for filing effective May 1, 1989.

G-41-89	**ICG**	**July 21**

Amendments to mains extension policy in Nanaimo District accepted for filing.

G-42-89	**PETRO-CANADA INC.**	**July 21**

Inquiry Officer appointed to review complaint by Petro-Can against B.C. Gas.

G-43-89	**PROVINCIAL GAS UTILITIES — GAS APPLIANCE SAFETY**	**July 25**

Directed gas utilities to develop a brochure concerning residential gas appliance safety.

G-44-89	**B.C. HYDRO**	**July 27**

Adopted Report of Inquiry Officer into health hazards of 230 kV transmission line, Dunsmuir to Gold River, B.C.

Order No.	Utility	Date
G-45-89	**COAST PACIFIC MANAGEMENT-PETRO-CANADA**	**August 9**

Inquiry Officer ordered to report on complaint by Coast Pacific Management Inc. and Petro-Canada concerning transportation service and rates by October 2/89.

G-46-89	**PRINCE RUPERT TELEPHONES**	**August 23**

Bylaw No. 2685 (Digby Island, B.C. Rate Tariff and General Regulations) accepted for filing.

G-47-89	**WKP**	**October 13**

Rate Schedule 90, Energy Management Service, accepted for filing.

G-48-89	**PROVINCIAL GAS UTILITIES — GAS APPLIANCE SAFETY**	**October 12**

Amended Order No. G-43-89 concerning the development of a brochure on gas appliance safety required before Fall 1990.

G-49-89	**B.C. HYDRO**	**October 13**

Interim Rate increase of 3% approved effective November 15/89. Hearing on Application to commence February 5/90 in Vancouver, B.C.

G-50-89	**B.C. HYDRO**	**October 19**

Rate Zone II Tariff amendment following the connection of Stewart, B.C. to B.C. Hydro's integrated system.

G-51-89	**B.C. HYDRO**	**October 19**

Amendments to Rate Schedule 1701 — Overhead Street Lighting.

G-52-89	**B.C. HYDRO**	**October 26**

Approved extension of subsidy payments by B.C. Hydro to Yoho Power from November 1/89 to June 30/90.

G-53-89	**WKP**	**October 27**

Commission requested clarification by WKP of rate design plans.

G-54-89	**WKP**	**November 6**

Approved the proposed sale of the Goat River Power Plant and related lands pursuant to Section 59 of the ***Utilities Commission Act.***

G-55-89	**WKP**	**October 27**

Required WKP to file for Certificate of Public Convenience and Necessity on all future transmission lines of 138 kV or more.

G-56-89	**PLP**	**October 27**

Required PLP to file for CPCN on all future transmission lines of 138 kV or more.

Order No.	Utility	Date
G-57-89	**YOHO POWER LTD.**	**October 27**

Required Yoho to file for CPCN on all future transmission lines of 138 kV or more.

G-58-89	**PNG**	**November 21**

Approved Application to extend the Incentive Rate for gas supplied to Ocelot Chemicals Inc. to April 30/90.

G-59-89	**ICG**	**November 21**

Gas Tariff rates decreased to industrial customers and increased to all residential/commercial customers served in the Fort St. John District effective November 1/89.

G-60-89	**B.C. HYDRO**	**November 15**

Affirmed Order No. G-49-89 and rejected applications by Consumers Association of Canada (B.C.) *et. al.* and Council of Forest Industries *et. al.* that the Commission reconsider its approval of B.C. Hydro's interim rate increase of 3 percent, effective November 15, 1989.

G-61-89	**PLP**	**December 1**

Ordered a public hearing into PLP's rate and rate design application to commence February 27, 1990 in Princeton, B.C.

G-62-89	**WKP**	**November 29**

Denied WKP's November 14, 1989 Application to pass-through a 6 percent increase in rates, effective January 1, 1990.

G-63-89	**B.C. HYDRO**	**December 1**

Ordered a public hearing into B.C. Hydro's November 30/89 rate application to commence February 5, 1990 in Vancouver.

G-64-89	**B.C. HYDRO**	**December 1**

Approved amendments to Electric Tariff, Terms and Conditions for Prepayment on Account Plan and Security Deposits, effective December 29, 1989.

G-65-89	**PNG**	**December 13**

Approved Gas Sales Agreement between PNG and Enso and West Fraser effective November 1, 1989.

G-66-89	**PNG**	**December 13**

Approved Firm Transportation Service and Interruptible Sales Agreement between PNG and Placer Dome Inc./Equity Silver Mines Ltd. effective December 1, 1989.

Order No.	Utility	Date
G-67-89	**WKP**	**December 12**

Approved an interim rate increase of 6.9 percent effective January 1, 1990.

G-68-89	**PNG**	**December 13**

Approved Firm Transportation Service Agreement between PNG and B.C. Petroleum Corporation effective December 1, 1989.

G-69-89	**NORTHLAND**	**December 18**

Approved the issuance of a 10.33 percent Debenture 1989 Series in the aggregate principal amount of $550,000.

G-70-89	**CENTRAL HEAT DISTRIBUTION**	**December 19**

Approved an increase in the basic steam tariff of 4.0% effective January 1, 1990 pursuant to Section 67(4) of the ***Utilities Commission Act.***

G-71-89	**PNG**	**December 19**

Approved Letter of Agreement between PNG and Ocelot approving the Incentive Rate and Transportation Margin from November 1, 1989 to April 30, 1990.

G-72-89	**PLP**	**December 22**

Approved pass-through of WKP interim increase, equivalent to 0.1844 cents per kW.h, effective January 1, 1990.

G-73-89	**CITY OF NELSON**	**December 21**

Approved pass-through of WKP interim increase, equivalent to 5.9% over existing rates, effective January 1, 1990.

APPENDIX IV

1989 CERTIFICATES OF PUBLIC CONVENIENCE AND NECESSITY

Order No.	Utility	Date
C-1-89	**PNG**	**June 27**

Granted PNG a CPCN to provide natural gas service and utility plant to the Village of Port Edward.

C-2-89	**B.C. HYDRO**	**September 8**

Granted B.C. Hydro a CPCN to construct 230 kV transmission line between Sukunka Substation to Louisiana Pacific's CTM pulp mill near Chetwynd.

C-3-89	**PNG**	**September 13**

Approved Gas Franchise Agreement between PNG and the Village of Port Edward for a period of 21 years.

APPENDIX V

1989 ENERGY SUPPLY CONTRACT ORDERS

ORDER NO.	UTILITY	DATE
E-1-89	**B.C. HYDRO**	**March 30**

Approved Energy Supply Contract between B.C. Hydro and Queen Charlotte Power Corporation.

E-2-89	**COAST PACIFIC MANAGEMENT**	**June 24**

Approved draft Energy Supply Contracts between Coast Pacific and Unocal and Coast Pacific's clients dated July 1, 1989.

E-3-89	**COMINCO**	**July 25**

Approved Energy Supply Contract for Natural Gas Supply between Cominco and [illegible] Petroleum Corporation dated May 1, 1989.

E-4-89	**CELGAR PULP**	**September 14**

Approved Energy Supply Contract for Natural Gas Supply between Celgar and Remington Energy Ltd. dated May 1, 1989.

E-5-89	**CONSUMERS PACKAGING INC.**	**September 14**

Approved Energy Supply Contract for Natural Gas between Consumers Packaging and Mobil effective November 1, 1989.

E-6-89	**QUESNEL RIVER PULP**	**September 14**

Approved Energy Supply Contract for Natural Gas between Quesnel River Pulp and Mobil Oil effective November 1, 1989.

E-7-89	**COAST PACIFIC MANAGEMENT**	**September 22**

Approved draft Energy Supply Contracts for Natural Gas between Coast Pacific Management and Unocal and Coast Pacific's clients namely, B.C. Buildings Corporation; Equity Silver Mines; Highland Valley Copper and Placer Dome Inc., Endako Mines Division effective October 1, 1989.

E-8-89	**B.C. HYDRO**	**October 31**

Approved Energy Supply Contract between B.C. Hydro and Mobil Oil Canada effective November 1, 1989.

E-9-89	**ING MARKETING**	**October 31**

Approved Energy Supply Contract between Inland Natural Gas Marketing and its suppliers and INGM's customers effective November 1, 1989.

E-10-89	**ING MARKETING/B.C. HYDRO**	**November 10**

Approved B.C. Hydro's purchase of gas on the "spot" market for period up to April 30, 1990.

APPENDIX VI

1989 PETROLEUM ORDERS

ORDER NO.	UTILITY	DATE
P-1-89	**CANTERRA ENERGY**	**November 25**
	Approved the Crude Petroleum Tariff for the Inga Oil Pipeline effective June 1, 1989.	
P-2-89	**TRANS MOUNTAIN ENTERPRISES OF BRITISH COLUMBIA**	**December 22**
	Approved rates contained in the Turbine fuel Tariff No. B.C.5 filed by Trans Mountain Enterprises' letter dated December 1, 1989 and effective January 1, 1990.	
P-3-89	**NORCEN ENERGY**	**December 29**
	Approved Rates contained in Norcen's Crude Petroleum Tariff No. 2C, effective February 1, 1990.	

APPENDIX VII

COMPLAINTS FROM UTILITY CUSTOMERS

Inquiries from Utility Customers concerning Conditions and Quality of Service, Billing, Payment Requirements, etc.

An important aspect of the Commission's mandate is to regulate in a manner that reflects fair, consistent and clearly enunciated standards. The Commission is available to assist the public in dealings with regulated utilities so that problems are handled in a prompt, helpful and efficient manner.

Most complaints are resolved through discussions between the customer and the utility concerned. Unresolved issues are normally referred to the Commission. To facilitate communication between the Commission and the customers of regulated utilities wishing to file complaints or have points clarified, toll-free calling from any region of the Province was in place during 1989. This calling privilege increased the number of inquiries, to 145, up from 94 recorded in 1988, directed to the Commission on various matters relating to utility operations.

Early in 1989, in response to a substantial number of letters of complaint to the Commission from residents of the Vancouver Island community of Courtenay, pursuant to Section 93(2) of the Utilities Commission Act and Commission Order No. G-35-89, a Public Inquiry was conducted into their complaints. Their chief concern was over possible electromagnetic field ("EMF") health effects from a proposed 230 kV transmission line from Dunsmuir to Gold River. (The findings of this Inquiry are summarized in the Appendix II section of this report.)

APPENDIX VIII

COSTS RECOVERED FROM REGULATED UTILITIES FROM JANUARY 1, 1989 TO DECEMBER 31, 1989

Pursuant to Commission Order No. G-31-89 a levy, at the rate of $0.0010 per $1 of total gross utility energy sales for the previous calendar year 1988, was collected from the public utilities for the fiscal year commencing April 1, 1989 enabling the Commission to recover expenses that resulted from the administration of the ***Utilities Commission Act.***

	Amount Recovered (12 mos. 1989)
	$
British Columbia Hydro and Power Authority	1,416,952
BC Gas Inc.	321,919
Central Heat Distribution Limited	4,838
City of Nelson	1,303
Columbia Natural Gas Limited	16,183
Fort Nelson Gas Ltd.	1,378
Hemlock Valley Electrical Services Limited	108
Inland Natural Gas Co. Ltd.	103,043
ICG Utilities (British Columbia) Ltd.	11,513
Northland Utilities (B.C.) Limited	4,529
Pacific Northern Gas Ltd.	64,067
Princeton Light and Power Company, Limited	1,993
Squamish Gas Co. Ltd.	980
West Kootenay Power Ltd.	55,817
Yoho Power Ltd.	291
Yukon Electric Co. Ltd.	72
	2,004,986

APPENDIX IX

ELECTRIC UTILITIES IN BRITISH COLUMBIA
DOMESTIC ELECTRICITY SALES — 1989

Crown-Owned Electric Utility	Customers #	Revenue $	SALES (GW.h)
British Columbia Hydro and Power Authority	1,257,978	1,610,458,000	37,937.61
Municipally-Owned Electric Utilities			
City of Grand Forks	1,621	1,162,000	27.83
City of Kelowna	10,446	9,238,000	236.06
City of Nelson	7,465	5,046,000	128.70
City of New Westminster	21,715	15,313,000	302.08
City of Penticton	11,889	8,723,000	238.90
District of Summerland	3,908	2,569,000	66.19
	57,044	42,051,000	999.76
Investor-Owned Electric Utilities			
Hemlock Valley Electrical Services Limited	201	182,000	1.88
Princeton Light and Power Company, Limited	2,435	2,215,000	56.22
West Kootenay Power Ltd.	64,504	51,591,000	1,613.78
Yoho Power Ltd.	164	397,000	1.36
Yukon Electrical Company Limited	58	60,000	.40
	67,362	54,445,000	1,673.64
TOTAL	1,382,384	1,706,954,000	40,611.01

NOTES TO APPENDIX IX

1. 1 gigawatt hour (GW.h) = 1 million kilowatt hours.
2. Figures reported are on a calendar year basis.
3. Revenues and sales for West Kootenay Power Ltd. and British Columbia Hydro and Power Authority are net of sales to other reporting utilities.

APPENDIX X

GAS UTILITIES IN BRITISH COLUMBIA
DOMESTIC GAS SALES — 1989

Investor-Owned Gas Utilities	Customers #	Revenue $	SALES (GJ)
BC Gas Inc.			
Lower Mainland Division	418,006	456,060,000	146,110,000
Inland Division	131,983	120,514,000	51,236,000
Columbia Division	15,004	22,016,000	9,763,000
Fort Nelson Division	1,519	1,804,000	544,000
ICG Utilities (British Columbia) Ltd.	6,594	6,748,000	2,165,000
Northland Utilities (B.C.) Ltd.	6,041	5,475,000	1,475,000
Pacific Northern Gas Ltd.	13,892	73,664,000	28,474,000
	593,039	686,281,000	239,767,000
Investor-Owned Liquid Propane Grid System Utilities			
ICG Utilities — Nanaimo, Port Alice and Whistler Systems	1,640	4,086,000	487,000
Victoria Gas	3,664	3,483,000	365,000
Squamish Gas Co. Ltd. (includes Granisle Grid System)	1,039	1,440,000	232,000
	6,343	9,009,000	1,084,000
TOTAL	599,382	695,290,000	240,851,000

NOTES TO APPENDIX X

1. 1 gigajoule (GJ) is approximately equivalent to 0.922 Mcf of natural gas or 0.376 Mcf of propane vapour in L.P. gas grid systems.
2. All figures reported are on a calendar year basis.
3. Sales of GJ shown include sales to end-use customers plus gas owned by customers and transported to industrial operations.
4. Revenues reported for natural gas utilities include only transportation margins for large industrial customers who have purchased gas supplies directly from producers. Prior to 1987, the sales and revenues were reported as direct sales by utilities.

APPENDIX XI

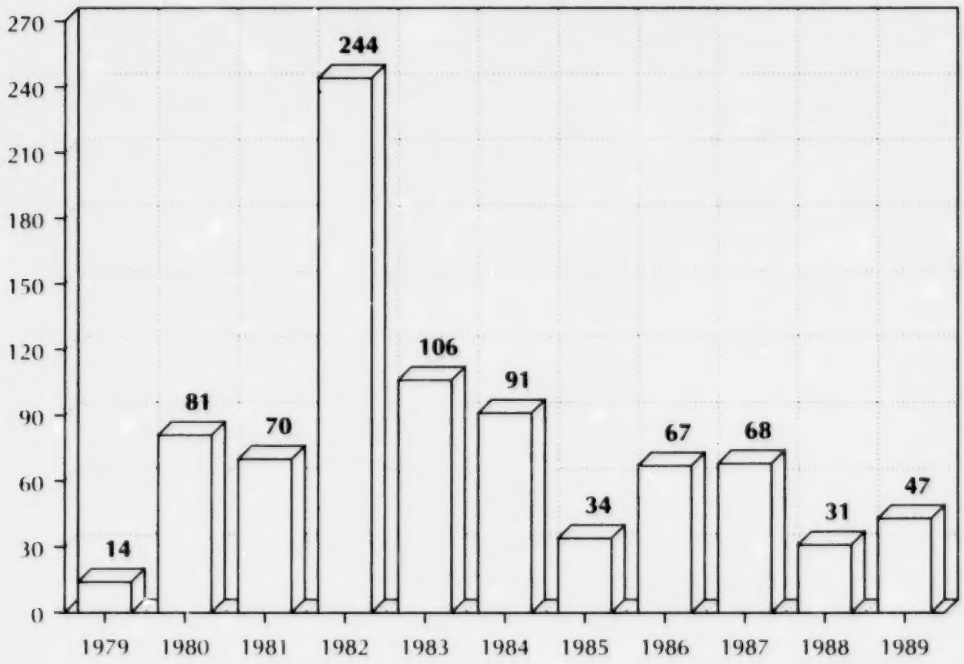
SUMMARY OF HEARING DAYS IN 1989

Date	Applicant	Type of Application	Locations	# of Days	# of Trans. Pages
Jan.10–13	West Kootenay Power Ltd.	Energy Project Certificate[1]	Oliver	4	980
Jan. 24	Pacific Coast Energy Corporation	Energy Project Certificate	Vancouver, Nanaimo, Powell River	29	4,684
Feb. 28	West Kootenay Power Ltd.	Rates	Rossland	7	1,455
Apr. 11	Northland Utilities (B.C.)	Interim and Permanent Rate Relief	Dawson Creek	1	143
July 11	B.C. Hydro	Complaints:[2] Proposed construction of 230 kV transmission line	Courtenay	6	970
TOTALS				47	8,239

[1] Continuation of Hearing Commenced in 1988.
[2] Inquiry pursuant to Commission Order No. G-35-89

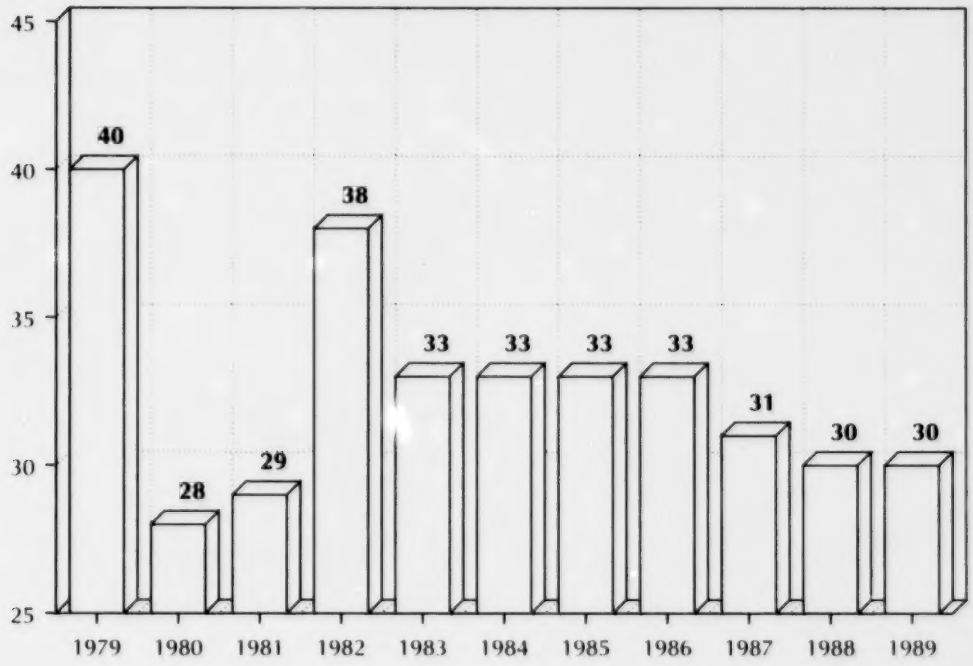
APPENDIX XI

HEARING DAYS DURING THE YEAR



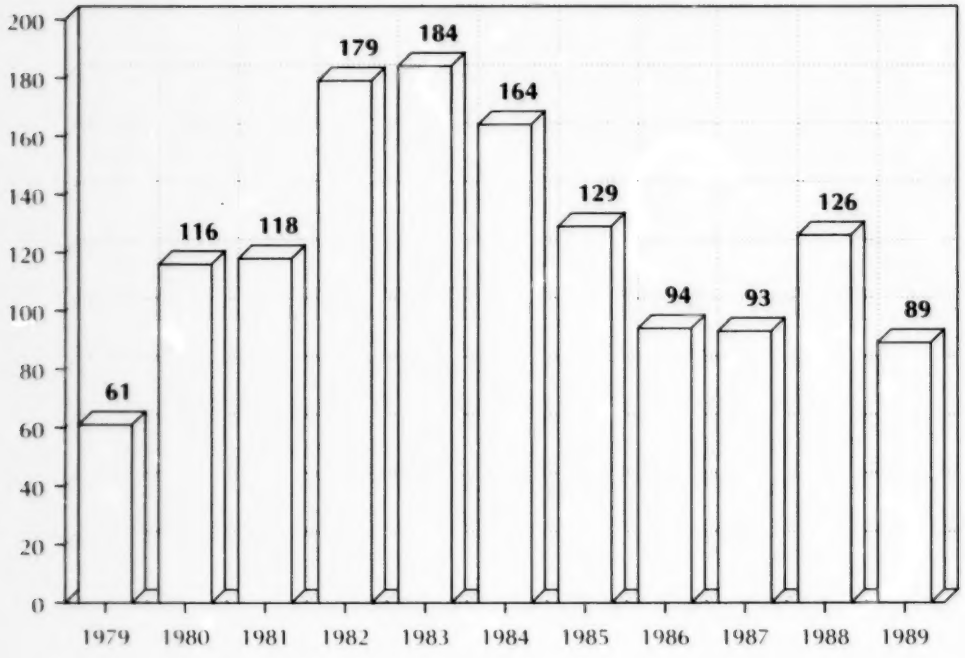
APPENDIX XII

STAFFING LEVEL



APPENDIX XIII

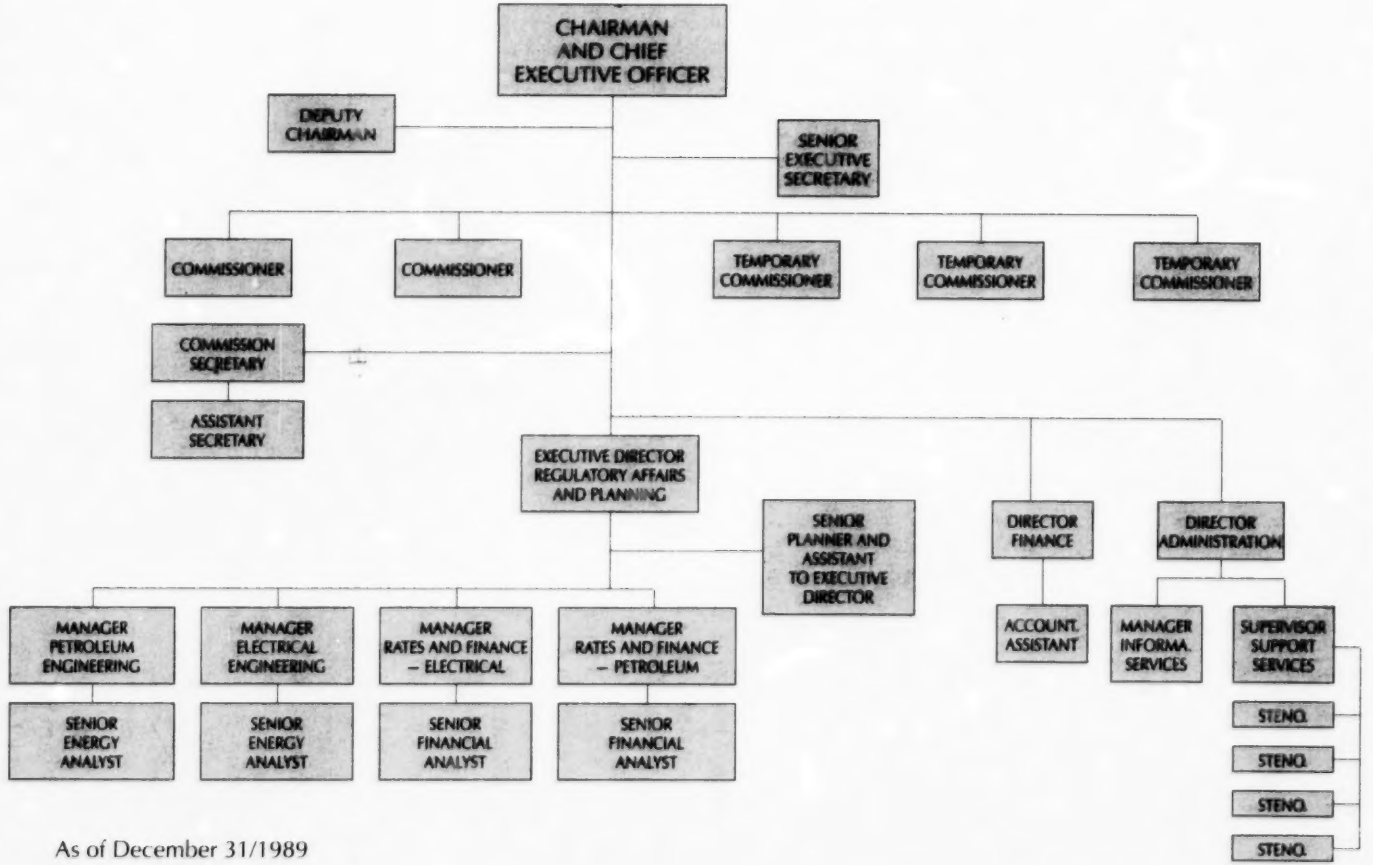
ORDERS ISSUED DURING YEAR



Note: The high level of Orders in Years 1982 and 1983 included certification of cable systems authorizing carriage of non-broadcast programming.

APPENDIX XIV

ORGANIZATION CHART



As of December 31/1989

BRITISH COLUMBIA UTILITIES COMMISSION

Office — Sixth Floor, 900 Howe Street, Box 250, Vancouver, British Columbia, Canada V6Z 2N3, Area Code (604) 660-4700; Facsimile (604) 660-1102, B.C. Toll Free: 1-800-663-1385.

Commissioners are appointed and serve at pleasure.

COMMISSIONERS

John G. McIntyre, Chairman: Concordia University in Montreal (Loyola College) (BA); Shell Canada (33 years) retired in 1984 as Region Manager Western Marketing Region, Manager of Corporate Affairs for Genstar Corporation (1984–86), past Chairman of Canadian Association of Members of Public Utility Tribunals (CAMPUT), past Director and President of B.C. Petroleum and Prairie Petroleum Associations; appointed Chairman November 2, 1987.

J. David V. Newlands, Deputy Chairman: Appleby College, MacMaster University (Economics and Business); TransCanada Pipelines Ltd.; British Columbia Energy Commission, Assistant Director, Utility Regulation (1973–1974), Director, Utility Regulation (1974–1978), Executive Director (1978–1980), Commissioner (1980–1982), Deputy Chairman (1982–), Chairman, Canadian Association of Members of Public Utility Tribunals (CAMPUT) Energy Committee, Member of the Electrical Committee of the National Association of Regulatory Utility Commissioners of the United States of America, Member of Canadian Institute of Energy.

Norris Martin, Commissioner: University of British Columbia (B.Comm., MBA), Transportation Executive; named Temporary Commissioner (September 23, 1982–January 1, 1988); appointed Commissioner January 2, 1988.

W. Milton Swanson, Q.C., Commissioner: University of British Columbia (LLB), Barrister and Solicitor (28 years) Lawrence & Shaw, Vancouver; appointed Commissioner August 2, 1988.

William A. Best, Temporary Commissioner: University of British Columbia (Electrical Engineering) formerly with the B.C. Power Commission and B.C. Hydro and Power Authority from 1958 to 1988, serving as Vice-President in various capacities from 1975 to 1986; appointed November 10, 1988.

Harold J. Page, Temporary Commissioner: University of British Columbia (BASc.), University of Victoria (Honourary Doctor of Engineering), Professional Engineer, Provincial Assistant Deputy Minister, Communications; Chief Engineer of the Public Utilities Commission of British Columbia; appointed October 1987.

Frank C. Leighton, Temporary Commissioner: professional engineer, employed by Swan Wooster Engineering Companies in Vancouver as Project Manager, Vice-President of Planning, President of Swan Wooster International, and Vice-Chairman of Swan Wooster Engineering (1951–84), private practice; appointed October 1987.

KEY STAFF

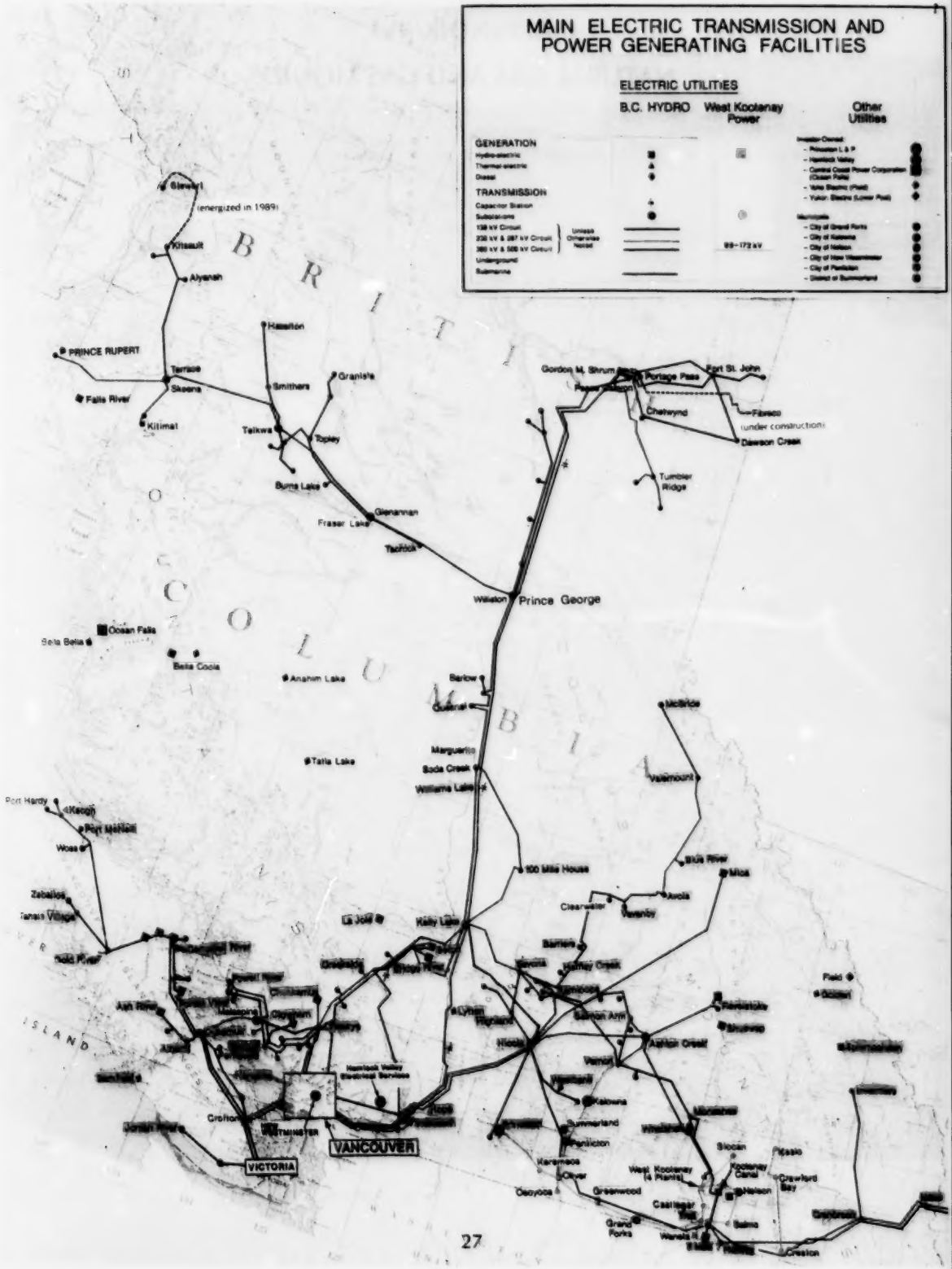
Robert J. Pellatt, Commission Secretary.

William J. Grant, Executive Director, Regulatory Affairs and Planning.

Derek Leach, Director, Finance.

James H. Hummelen, Director, Administration and Personnel.

APPENDIX XV


MAIN ELECTRIC TRANSMISSION AND POWER GENERATING FACILITIES
ELECTRIC UTILITIES
B.C. HYDRO
West Kootenay Power
Other Utilities
GENERATION
Hydro-electric
Thermal-electric
Diesel
TRANSMISSION
Capacitor Station
Substations
138 kV Circuit
230 kV & 287 kV Circuit
360 kV & 500 kV Circuit
Underground
Submarine
Unless Otherwise Noted
69 - 172 kV
Investor Owned
- Princeton L & P
- Hamilton Valley
- Central Coast Power Corporation (Ocean Falls)
- Yukon Electric (Faro)
- Yukon Electric (Lower Post)
Municipals
- City of Grand Forks
- City of Kelowna
- City of Nelson
- City of New Westminster
- City of Penticton
- District of Summerland
(energized in 1989)
Stewart
Kitsault
Alyansh
PRINCE RUPERT
Terrace
Skeena
Falls River
Kitimat
Hazelton
Smithers
Granisle
Telkwa
Topley
Burns Lake
Fraser Lake
Glenannan
Takfork
Gordon M. Shrum
Peace Canyon
Portage Pass
Port St. John
Chetwynd
Fortune
(under construction)
Dawson Creek
Tumbler Ridge
Williston
Prince George
Ocean Falls
Bella Bella
Bella Coola
Anahim Lake
Barlow
Quesnel
McBride
Valemount
Marguerite
Soda Creek
Williams Lake
Talla Lake
Port Hardy
Kaeph
Port Alberni
Woss
Zeballos
Tahsis Village
Nootka
Ash River
Alberni
Duncan
Victoria
Crofton
Nanaimo
Vancouver
Hope
Princeton
Kelly Lake
100 Mile House
Clearwater
Vavenby
Avola
Blue River
Mica
Barriere
Kamloops
Lytton
Hazelton
Smithers
Terrace
Kitimat
Prince Rupert
Dawson Creek
Fort St. John
Williston Lake
Mackenzie
Fort Nelson
Watson Lake
Whitehorse
Faro
Dawson
Stewart
Kitsault
Alyansh
Prince George
Quesnel
Williams Lake
Kamloops
Vernon
Kelowna
Penticton
Princeton
Hope
Vancouver
Victoria
Nanaimo
Duncan
Port Alberni
Tofino
Ucluelet
Port Hardy
Campbell River
Courtenay
Comox
Powell River
Sechelt
Squamish
Whistler
Pemberton
Lillooet
Merritt
Chilliwack
Abbotsford
Mission
Langley
Surrey
Richmond
Delta
New Westminster
Burnaby
North Vancouver
West Vancouver
Revelstoke
Golden
Invermere
Cranbrook
Kimberley
Fernie
Sparwood
Elkford
Creston
Castlegar
Nelson
Trail
Rossland
Grand Forks
Greenwood
Osoyoos
Oliver
Keremeos
Summerland
Peachland
West Kootenay (4 Plants)
Kootenay Canal
Slocan
Kaslo
Crawford Bay
Salmo
Waneta
Boundary
Ashcroft
Cache Creek
Clinton
Lytton
Boston Bar
Agassiz
Harrison Hot Springs
Chilliwack
Abbotsford
Mission
Langley
Surrey
Richmond
Delta
New Westminster
Burnaby
North Vancouver
West Vancouver
Squamish
Whistler
Pemberton
Lillooet
Merritt
Powell River
Courtenay
Comox
Campbell River
Tofino
Ucluelet
Port Hardy
Kaeph
Port Alberni
Woss
Zeballos
Tahsis Village
Nootka
Ash River
Alberni
Duncan
Victoria
Crofton
Nanaimo
Vancouver
Hope
Princeton
Kelly Lake
100 Mile House
Clearwater
Vavenby
Avola
Blue River
Mica
Barriere
Kamloops
Lytton
Hazelton
Smithers
Terrace
Kitimat
Prince Rupert
Dawson Creek
Fort St. John
Williston Lake
Mackenzie
Fort Nelson
Watson Lake
Whitehorse
Faro
Dawson
Stewart
Kitsault
Alyansh
Prince George
Quesnel
Williams Lake
Kamloops
Vernon
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Creston
Castlegar
Nelson
Trail
Rossland
Grand Forks
Greenwood
Osoyoos
Oliver
Keremeos
Summerland
Peachland
West Kootenay (4 Plants)
Kootenay Canal
Slocan
Kaslo
Crawford Bay
Salmo
Waneta
Boundary
Ashcroft
Cache Creek
Clinton
Lytton
Boston Bar
Agassiz
Harrison Hot Springs

APPENDIX XVI

NATURAL GAS AND GAS LIQUIDS